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*CJK*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number: 7,163,904  
Issued: 16 January 2007  
Name of Patentee: Steffen GRÜN et. al.  
Title of Invention: COLORLESS GLASS/BOROSILICATE  
GLASSES WITH SPECIAL UV-EDGE  
Customer No.: 42419

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT  
FOR PTO MISTAKE PURSUANT TO 37 C.F.R. 1.322(a)**

**ATTENTION:** Certificate of Corrections Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Certificate  
MAR 07 2007  
of Correction**

Dear Sir:

Patentees request that a Certificate of Correction for the subject U.S. Patent be issued in accordance with the enclosed Form PTO/SB/44, to correct a mistake of the U.S. Patent and Trademark Office.

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

27 FEB 2007

27 FEB 2007

Date

VO-659

Signature

*Doug Paulsen*

**MAR - 7 2007**


I/ws

U.S. Patent 7,163,904

The Examiner's Amendment mailed 26 October 2006 amended the last line of Claim 1 to read "stop range of  $1 \times 10^{-5}$ ." A copy of the Supplemental Notice of Allowability mailed 26 October 2006, is enclosed.

There is no fee because the error was made by the U.S. Patent and Trademark Office. Please send the Certificate of Correction of Patent to the undersigned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Douglas H. Pauley", written in a cursive style.

Douglas H. Pauley  
Registration No. 33,295

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VO-659

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MAR 1 - 7 2007

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,163,904

APPLICATION NO.: 10/675,224

ISSUE DATE : 16 January 2007

INVENTOR(S) : Steffen GRÜN et. al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 1, column 5, line 29, "1x10<sup>5</sup>" should be changed to --1x10--<sup>5</sup>--.

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

Pauley, Petersen & Erickson  
2800 West Higgins Road, Suite 365  
Hoffman Estates, Illinois 60169

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**MAR - 7 2007**

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

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ISSUE DATE : 16 January 2007

INVENTOR(S) : Steffen GRÜN et. al.

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Claim 1, column 5, line 29, "1x10<sup>5</sup>" should be changed to --1x10<sup>-5</sup>--.

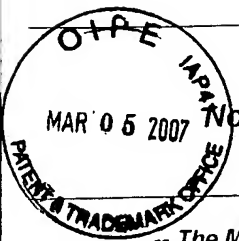
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*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

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# Supplemental Notice of Allowability

Application No.

10/675,224

Examiner

Elizabeth A. Bolden

Applicant(s)

GRUN ET AL.

Art Unit

1755

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to phone interview with Mark Swanson on 17 October 2006.

2. ☒ The allowed claim(s) is/are 1-4,6-15 and 17-24.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☒ All b) ☐ Some\* c) ☐ None of the:

1. ☒ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.

(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_

4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 10182006.

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other \_\_\_\_\_.

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**DETAILED ACTION**  
**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Mark Swanson on 17 October 2006. The Examiner's amendment is due to the accidental dropping of the negative sign from the exponent of the optical density in a stop range.

The application has been amended as follows:

In the specification insert the following paragraph on page 5 after the third paragraph that starts with "This object can be achieved".

--In one embodiment a borosilicate glass is provided with a composition in a percent by weight on an oxide basis, including: 60 - 75% SiO<sub>2</sub>, 10 - 15% B<sub>2</sub>O<sub>3</sub>, 5 - 15% Na<sub>2</sub>O, 5 - 10% K<sub>2</sub>O, 0.1 - 1% CaO, 0.5 - 3% BaO, > 0 - 1.7% TiO<sub>2</sub>, 0 - 0.5% Sb<sub>2</sub>O<sub>3</sub>, and normal refining agents, and having an edge wavelength  $\lambda_c$  between 280 nm and 325 nm and a pass range internal transmittance ( $\tau_{ip}$ ) of greater than 98% and an optical density in a stop range of  $1 \times 10^{-5}$  with a sample thickness of 2 mm.--

Replace claim 1 with the following:

-- A borosilicate glass with a composition in a percent by weight on an oxide basis, including: 60 - 75% SiO<sub>2</sub>, 10 - 15% B<sub>2</sub>O<sub>3</sub>, 5 - 15% Na<sub>2</sub>O, 5 - 10% K<sub>2</sub>O, 0.1 - 1% CaO, 0.5 - 3% BaO, > 0 - 1.7% TiO<sub>2</sub>, 0 - 0.5% Sb<sub>2</sub>O<sub>3</sub>, and normal refining agents, and having an edge wavelength  $\lambda_c$  between 280 nm and 325 nm and a pass range internal transmittance ( $\tau_{ip}$ ) of greater than 98% and an optical density in a stop range of  $1 \times 10^{-5}$  with a sample thickness of 2 mm.--

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***Allowable Subject Matter***

Claims 1-4, 6-15, and 17-24 are allowed.

***Reason For Allowance***

The following is an examiner's statement of reasons for allowance:

The prior art fail to disclose or suggest a glass composition having the composition as recited in the instant claims, which result in the recited properties specifically the difference between the HTV temperature and the liquidus temperature being at least 150°F.

The closest prior art is deemed to be U.S. Patent 4,562,161 by Mennemann et al. Mennemann et al. discloses a similar composition but does not teach that the glass has a pass range internal transmission greater than 98 %. Mennemann et al. teach that the glass, essentially completely absorbs the transmission of UV light from 340 to 390 nm, where the instant claims require that UV light is transmitted in the past band region, which includes 340 to 390 nm.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth A. Bolden whose telephone number is 571-272-1363. The examiner can normally be reached on 10 am to 8:30 pm every Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EAB

18 October 2006

  
J.A. LORENGO  
SUPERVISORY PATENT EXAMINER

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